

STATEMENT OF BASIS (AI No. 42129)

for draft Louisiana Pollutant Discharge Elimination System permit No. LA0096661 to discharge to waters of the State of Louisiana.

THE APPLICANT IS: Louisiana Shrimp and Packing Co.
P.O. Box 610
Golden Meadow, LA 70357

ISSUING OFFICE: Louisiana Department of Environmental Quality (LDEQ)
Office of Environmental Services
Post Office Box 4313
Baton Rouge, Louisiana 70821-4313

PREPARED BY: Kelli Hamilton

DATE PREPARED: February 5, 2007

1. PERMIT STATUS

A. Reason For Permit Action:

Permit reissuance of a Louisiana Pollutant Discharge Elimination System (LPDES) permit for a 5-year term.

B. LPDES permit - LPDES permit effective date: July 1, 2002
LPDES permit expiration date: June 30, 2007
EPA has not retained enforcement authority.

C. Date Application Received: December 22, 2006

2. FACILITY INFORMATION

A. FACILITY TYPE/ACTIVITY - shrimp processing facility

Shrimp are off loaded from boats/trucks into a feed tank and pumped to four peeling machines. The shrimp are conveyed through the peeling machines using gravity and water flow. Hulled shrimp are segregated by size using a sorting machine. The sorted shrimp are packaged into boxes and frozen prior to shipment.

B. FEE RATE

1. Fee Rating Facility Type: minor
2. Complexity Type: II (BPJ points to 0 as per administrative decision)
3. Wastewater Type: II
4. SIC code: 2092

C. LOCATION - 22801 Highway 1 in Golden Meadow, Lafourche Parish
Latitude 29°17'54", Longitude 90°14'04"

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3. **OUTFALL INFORMATION**

Outfall 001

Discharge Type: process wastewater
Treatment: screen
Location: at the point of discharge from the screen
Flow: 0.12 MGD
Discharge Route: Bayou Lafourche

Outfall 002 (previously Outfall 101)

Discharge Type: treated sanitary wastewater
Treatment: packaged aeration treatment plant with chlorination
Location: at the point of discharge from the sanitary treatment system
Flow: 500 gpd
Discharge Route: Bayou Lafourche

Outfall 003

Discharge Type: shrimp unloading tank wastewater
Treatment: none
Location: at the point of discharge from the southeast corner of the facility located south of Outfall 004
Flow: 600 gpd
Discharge Route: Bayou Lafourche

Outfall 004

Discharge Type: shrimp unloading tank wastewater
Treatment: none
Location: at the point of discharge from the southeast corner of the facility located north of Outfall 003
Flow: 600 gpd
Discharge Route: Bayou Lafourche

Outfall 005

Discharge Type: shrimp unloading tank wastewater
Treatment: none
Location: at the point of discharge from the headless packing room
Flow: 600 gpd
Discharge Route: Bayou Lafourche

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4. RECEIVING WATERS

STREAM - Bayou Lafourche

BASIN AND SEGMENT - Barataria Basin, Segment 020403

DESIGNATED USES - a. primary contact recreation
b. secondary contact recreation
c. propagation of fish and wildlife
e. oyster propagation

5. PROPOSED EFFLUENT LIMITS

BASIS - See Rationale below.

Summary of Proposed Changes From the Current LPDES Permit: Effluent loading limits have increased due to an increase in production at the facility. Outfall 101 from the pervious permit is no longer an internal outfall. Therefore, it has been changed to Outfall 002 as in the 1994 LWDPS permit. In addition, Outfalls 003-005 have been added.

6. COMPLIANCE HISTORY/COMMENTS

A. Compliance History

No records of recent compliance actions were found.

B. DMR Review/Excursions - For Outfall 001: see attached DMR Summary; "No Discharge" was reported on DMRS for the following months: 1/03, 3/03, 4/03, 5/03, 2/04, 3/04, 4/04, 7/04, 8/04, 11/04, 12/04, 1/05, 2/05, 3/05, 9/05, 10/05, 1/06, 2/06, and 3/06. For Outfall 002: an excursion of 930 colonies/100ml for Fecal Coliform was reported in 2005.

7. EXISTING EFFLUENT LIMITS

Outfall 001 -		Outfall 101	
BOD	Report:Report lb/day	BOD	--:45 mg/l
TSS	---:2595 lb/day	TSS	--:45 mg/l
Oil and Grease	360:1080 lb/day	Fecal Coliform	--:43
pH	6-9	pH	6-9

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8. ENDANGERED SPECIES

The receiving waterbody, Subsegment 020403 of the Barataria Basin is not listed in Section II.2 of the Implementation Strategy as requiring consultation with the U.S. Fish and Wildlife Service (FWS). This strategy was submitted with a letter dated September 29, 2006 from Watson (FWS) to Brown (LDEQ). Therefore, in accordance with the Memorandum of Understanding between the LDEQ and the FWS, no further informal (Section 7, Endangered Species Act) consultation is required. It was determined that the issuance of the LPDES permit is not likely to have an adverse effect on any endangered or candidate species or the critical habitat. The effluent limitations established in the permit ensure protection of aquatic life and maintenance of the receiving water as aquatic habitat.

9. HISTORIC SITES

The discharge is from an existing facility location, which does not include an expansion on undisturbed soils. Therefore, there should be no potential effect to sites or properties on or eligible for listing on the National Register of Historic Places, and in accordance with the "Memorandum of Understanding for the Protection of Historic Properties in Louisiana Regarding LPDES Permits" no consultation with the Louisiana State Historic Preservation Officer is required.

10. TENTATIVE DETERMINATION

On the basis of preliminary staff review, the Department of Environmental Quality has made a tentative determination to reissue a permit for the discharge described in the application.

11. PUBLIC NOTICES

Upon publication of the public notice, a public comment period shall begin on the date of publication and last for at least 30 days thereafter. During this period, any interested persons may submit written comments on the draft permit and may request a public hearing to clarify issues involved in the permit decision at this Office's address on the first page of the statement of basis. A request for a public hearing shall be in writing and shall state the nature of the issues proposed to be raised in the hearing.

Public notice published in:

Local newspaper of general circulation

Office of Environmental Services Public Notice Mailing List

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12. STORM WATER POLLUTION PREVENTION PLAN (SWP3) REQUIREMENT

A SWP3 is included in the permit because in accordance with LAC 33:IX.2511.A.1, storm water shall not be required to obtain and LPDES permit "... except... discharges associated with industrial activity." In accordance with LAC 33:IX.2511.B.14.a-k, facilities classified as SIC code 2092 are considered to have storm water discharges associated with industrial activity.

The SWP3 shall be prepared, implemented, and maintained within (6) months of the effective date of the final permit. The plan should identify potential sources of storm water pollution and ensure the implementation of practices to prevent and reduce pollutants in the storm water discharges associated with industrial activity at the facility (see Narrative Requirements for the AI).

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Rationale for Louisiana Shrimp and Packing Co.

1. **Outfall 001** process wastewater (estimated flow is 0.12 MGD)

<u>Pollutant</u>	<u>Limitation</u>	<u>Reference</u>
	Mo. Avg:Daily Max (lb/day)	
Flow	Report:Report	LAC 33:IX.2707.I.1.B
BOD ₅	Report:Report	Existing LPDES permit
TSS	1520:4400	40 CFR 408.122
Oil&Grease	480:1440	40 CFR 408.122
pH (s.u.)	6.0:9.0 (min:max)	40 CFR 408.122

Treatment: screening

Monitoring Frequency: 1/month per existing LPDES permit

Limits Justification: The facility was constructed in 1963; therefore, 40 CFR 408.122 applies. BOD reporting per existing LPDES permit.

Calculations:

TSS 38/110 lb/1000 lb
Oil and Grease 12/36 lb/1000 lb
per application: 40,000lbs/day
TSS 40 x 38/110 = 1520/4400
Oil and Grease 40 x 12/36 = 480/1440

su Standard Units

2. **Outfall 002**, the discharge of treated sanitary wastewater (estimated flow is 500 gpd).

<u>Pollutant</u>	<u>Limitation</u>	<u>Reference</u>
	Mo. Avg:Weekly Avg (mg/l)	
Flow	Report:Report	See limits justification (2) below
BOD ₅	---:45	See limits justification (1), (2) below
TSS	---:45	See limits justification (1), (2) below
Fecal Coliform	---:43	See limits justification (1), (2) below
pH (s.u.)	6.0:9.0 (min:max)	See limits justification (2) below

Treatment: packaged aeration unit

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Limits Justification:

- 1) Sanitary wastewater regulated in accordance with LAC 33:IX.711 or LAC 33:IX.709.B - Concentration limits are used in accordance with LAC 33:IX.2363.F.1.b which states that mass limitations are not necessary when applicable standards and limitations are expressed in other units of measurement. LAC 33:IX.709.B references LAC 33:IX.711 which expresses BOD₅ and TSS in terms of concentration. Fecal Coliform limits have been set as per LAC 33:IX.1113.C.5.iv.
 - 2) BPJ utilizing the LPDES Class I Sanitary General Permit
3. **Outfall 003-005**, shrimp unloading tank wastewater (estimated flow is 600 GPD each)

<u>Pollutant</u>	<u>Limitation</u> Mo. Avg:Daily Max (mg/l)	<u>Reference</u>
Flow	--:Report	BPJ, *
BOD ₅	--:Report	BPJ, *
TSS	--:Report	BPJ, *
Oil & Grease	--:Report	BPJ, *
pH	6.0 su to 9.0 su	BPJ, *

Treatment: None

Monitoring Frequency: Once per quarter by grab sample. BPJ based on existing permits for similar outfalls.

Limits Justification: Flow reporting is in accordance with LAC 33:IX.2707.I.2.b. The Canned and Preserved Seafood Processing ELGs (40 CFR 408) do not apply to the effluent at this outfall. Report only requirements for BOD, TSS and Oil & Grease, and pH limits of 6.0 to 9.0 su have been placed in the permit based on BPJ and existing permits for similar outfalls. Accumulated data will be used to assess the potential problems associated with discharges of this type. After sufficient information has been collected, a determination of the appropriate parameters and limitations for this type of discharge will be made.

* Existing permits for similar outfalls
BPJ Best Professional Judgement
su Standard Units

NOTE

For outfalls containing concentration limits, the usage of concentration limits is based on BPJ for similar outfalls since the flow is variable and estimated.

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TMDL Waterbodies

Subsegment 020403, Bayou Lafourche - Yankee Canal and Flood Gate to Gulf of Mexico (Estuarine), is listed on LDEQ's Final 2004 303(d) List as impaired for total fecal coliform. To date no TMDL's have been completed for this subsegment. A reopener clause will be established in the permit to allow for the requirement of more stringent effluent limitations and requirements as imposed by a TMDL. Until completion of TMDL's for the Barataria Basin, those suspected causes for impairment which are not directly attributed to the shrimp processing facility point source category have been eliminated in the formulation of effluent limitations and other requirements of this permit. Additionally, suspected causes of impairment which could be attributed to pollutants which were not determined to be discharged at a level which would cause, have the reasonable potential to cause or contribute to an excursion above any present state water quality standard were also eliminated. Therefore, for the purposes of this permit, total fecal coliform will be addressed in a manner consistent with the Department's permitting guidance for implementing Louisiana's surface water quality standards as follows:

Total Fecal Coliform

A fecal coliform limit has been established in accordance with sanitary discharges.